

UIC INJECTION PERMIT ANALYSIS FORM
WELL NAME: Harley Dome #1 SWD (4301931622)

iR649-5-2. Requirements For Class II Injection Wells Including Water Disposal, Storage And Enhanced Recovery Wells.	Completed Items, Needed Items, & Comments
1. Injection wells shall be completed, equipped, operated, and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.	1. OK
2. The application for an injection well shall include a properly completed UIC Form 1 and the following:	2. OK
2.1. A plat showing the location of the injection well, all abandoned or active wells within a one-half mile radius of the proposed well, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well.	2.1 OK
2.2. Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper, and porosity.	2.2 OK
2.3. A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.	2.3 Original CBL inadequate for lack of sufficient 80% bonded interval. Remedial cement job. New CBL indicates acceptable cement bonding although it is not ideal for insufficient travel time curve backup or attenuation.
2.4. Copies of logs already on file with the division should be referenced, but need not be refiled.	2.4 OK
2.5. A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well.	2.5 OK
2.6. A statement as to the type of fluid to be used for injection. its source and estimated amounts to be injected daily.	2.6 OK
2.7. Standard laboratory analyses of (1) the fluid to be injected, (2) the fluid in the formation into which the fluid is being injected, and (3) the compatibility of the fluids.	2.7 No Compatibility Analysis.
2.8. The proposed average and maximum injection pressures.	2.8 OK
2.9. Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata.	2.9 OK
2.10. Appropriate geological data on the injection interval and confining beds, and nearby Underground Sources of Drinking Water, including the geologic name, lithologic description, thickness, depth, water quality, and lateral extent; also information relative to geologic structure near the proposed well which may effect the conveyance and/or storage of the injected fluids.	2.10 OK
2.11. A review of the mechanical condition of each well within a one-half mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter improper intervals.	2.11 None but subject well.
2.12. An affidavit certifying that a copy of the application has been provided to all operators, owners and surface owners within a one-half mile radius of the proposed injection well.	2.12 OK
2.13. Any other additional information that the board or division may determine is necessary to adequately review the application.	2.13 OK

OTHER COMMENTS AND OBSERVATIONS: Status of informational submission as of 11/30/2010.

Reviewed by: Christopher J. Kierst Date: 11/30/2010

FILED

DEC 08 2010

**SECRETARY, BOARD OF
OIL, GAS & MINING**